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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER DICKERSON, CHAD S	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/688,911

Applicant(s)

YOON, TAE-JUNG

Examiner

CHAD DICKERSON

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on 27 October 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 42 and 43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 42 and 43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-940)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 37-41 have been considered but are moot in view of the new ground(s) of rejection. The amendment to the claims has necessitated a new ground(s) of rejection. However, the references of Tsukamoto '033, the description of the related art and Kanno "609 are still being applied to the claim language. The Applicant added an amendment to the claims that comprised of 1) a processor displaying a message for indicating error, and 2) then, when a memory card in which the device driver is stored in a plug-in form is installed in the second interface, the processor displays a selectable menu through the operation panel, and 3) if the menu is selected. The Applicant asserts that this information is not taught by any of the combined references. However, the Examiner respectfully disagrees with this assertion.

When viewing the cited portions regarding the Tsukamoto reference, these portions are interpreted to disclose the newly filed claim limitations. For example, the program IC card is considered as a memory card that stores the program used to drive the corresponding interface card to perform an associated additional function. The system discloses inserting two cards to perform an additional function. The cited portions disclose a system that first determines if the programs within the copier body and the program IC card work with the interface card (e.g. modem card) in order to perform the associated function with the interface card. If the system detects that the program on the program IC card contradicts the interface card or that the copier cannot

execute the interface card because it cannot execute the program from the program IC card transferred to the copier body, the system alerts the user with an error or contradiction indication¹. This occurs when the system determines that the copier does not have a program to run the interface card and that the program IC card cannot work with the interface card. The system requests that the user replace the program IC card if the software replacement is needed. As stated in ¶ [182], the interface card or the program IC card with the software can be changed to correspond with each other. In the example of the cited portion, if the user intends on using the modem, the system alerts the user of an error and to change the card. The user can then change the program IC card from a LAN card to a modem program IC card. This performs the feature of the claims describing the indication of an error and placing a card in the card slot.

The Kanno '609 reference still performs the feature of selecting from a list of items on the display and to execute the selected list of items (or menu) that are representative of functions on the copier. With the combination of these two references, the newly amended claims are disclosed.

Therefore, in view of the above arguments, the rejection is maintained with the previously applied references.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

¹ See Tsukamoto '033 at ¶ [175]-[184].

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 42 and 43 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In Applicant's specification in ¶ [31], the invention outputs a message stating that the installed interface card cannot be operated. This type of message is specific as to what the situation is with the card and the copier, which is different from the claim language. The claims state that a display shows a message indicating error. Since the specification does not mention anything about an error, but it explicitly mentions a message showing that a card is not able to be operated, the Examiner considers the claim language in claims 42 and 43 to be new matter.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsukamoto '033 (US Pub No 2002/0048033) in view of the Description of the Related Art, Kanno '609 (USP 6252609) and Okubo '471 (US pub 2003/0058471).

Re claim 42: Tsukamoto '033 discloses an image forming apparatus comprising:

- a printing unit to execute printing functions (i.e. the communication apparatus comprises a recording portion that is able to perform printing functions; see fig. 1, paragraphs [0036]-[0038]);

- a processor to control functions executed by the image forming apparatus (i.e. in the system of Tsukamoto, since the CPU (101) controls the apparatus with a program stored in ROM (102), this is considered as the main program being executed in the copier device; see paragraph [0029]),

- a memory (i.e. the RAM or ROM is considered as the memory; see paragraphs [0029] and [0030]);

- an operation panel unit (i.e. the operation portion (104) is considered as the operation panel; see paragraph [0031]);

- a first interface connected with an external apparatus to receive print data (i.e. as seen in figure 1, the printer interface card (116) is used to connect a PC to a printing device to output data from a PC; see *p [0044]-[0050] and [0142]-[0165]); and

- a second interface, separate from the first interface, to removably receive a portable storage unit providing an additional function related to the image forming apparatus that was not previously supported by the image forming apparatus (i.e. in the

system, the program IC card (1304) stores a program that adapts the copier to use the interface card (1303) that is used to connect a PC to the image forming apparatus. The program IC card that introduces a program to use the interface card for communication between the PC and the copier is considered as an additional function related to the image forming apparatus that was not previously supported. If the function was previously supported or functioning on the copier, the program IC card (1304) would not be needed for communication between the two devices; see ¶ [0142]-[0165]),

wherein the processor determines whether the portable storage unit is installed in the second interface, and determines whether an execution file is stored in the portable storage unit is executable (i.e. in the system, a card storing data, which can be image data or a program, can be used. The program relating to the CPU (101) that reads the card can determine whether the card contains a program to execute a function or data that is simply exchanged between the memory card and RAM (103). The program IC card and interface card can be considered as a portable storage units since they both store either a function to be realized by a printer or the software to perform the function. Within the system, the software on the cards are corresponding to, or related with, the main program on the copier since these introduced programs work with the main program to perform some function. In addition, the system determines if the card software can be executed with the programs available on the copier device; see figs. 26-28, 31-42; paragraphs [0030], [0115]-[0134] and [0171]-[0181]),

wherein if the execution file in the portable storage unit is not executable, the processor displays a message via operation panel (i.e. the user is notified on a display

to change a card in order to overcome an error or contradiction because the program on the card is not able to be executed; see ¶ [0171]-[0181]);

wherein if it is determined that the portable storage unit is installed in the second interface and the execution file is stored in the portable storage unit (i.e. in the system, a card storing data, which can be image data or a program, can be used. The program relating to the CPU (101) that reads the card can determine whether the card contains a program to execute a function or data that is simply exchanged between the memory card and RAM (103). The program IC card and interface card can be considered as a portable storage units since they both store either a function to be realized by a printer or the software to perform the function. Within the system, the software on the cards are corresponding to, or related with, the main program on the copier since these introduced programs work with the main program to perform some function; see figs. 26-28, 31-42; paragraphs [0030], [0115]-[0134] and [0171]-[0181]),

wherein if a portable storage unit is connected for the first time, the processor determines whether the portable storage unit is an interface card or a memory card (i.e. the system detects if the card inserted in the slot is a memory, LAN or modem card, which can be considered as interface and memory cards; see ¶ [0171]-[0181]),

wherein if the portable storage unit is determined to be an interface card, the processor checks if a driver program corresponding to the interface card is stored in the internal storage unit (i.e. the system detects that the card within the card slot is a LAN or NCU card and searches the copier body to see if it needs to acquire the program to run the interface card or if it already has the program within the copier body. It is assumed

that a memory card is inserted in with another card. If the copier determines that it contains a program to run the LAN or modem card within a RAM or ROM, it will run the program; see ¶ [0171]-[0181]), and

wherein if the driver program is not stored in the internal storage unit, the processor displays a message for indicating error, and then, when a memory card in which the device driver is stored in a plug-in form is installed in the second interface (i.e. if the copier body determines that the LAN or modem card does not correspond with any driver programs in the copier's memory, the system then determines if the memory card also connected in the other card slot contains a driver program to run the LAN or modem card. If a contradiction or the cards occur, the user is alerted on the display about the contradiction or the error. The user can change either the interface card or the program IC card in order to perform an additional function. In the case of the example mentioned in the disclosure, the user can simply replace the old program IC card associated with a LAN with a program IC card associated with a modem. The program on the memory card is stored in a format that is able to be installed on the copier device in order to execute a program, which is considered to be a plug-in form; see ¶ [0171]-[0181] and [0115]-[0131]), and

then the processor drives the interface card using the device driver (i.e. when the copier acquires the correct program IC card that corresponds with the interface card, the copier processor drives the interface card to perform the associated function using the program within the program IC card; see ¶ [0171]-[0181] and [0115]-[0131]).

[0174] If the software, which is being used, cannot be adapted to the set card, this fact is notified to the OS 1710 through the external interface control module 1724 and the module controller 1712. The OS 1710 performs display on the display portion 1051 to urge the user to perform a required process, such as change of the corresponding program IC card or another card. The program IC card stores software shown in FIG. 40.

[0178] An examination is made as to whether or not the program and data in the memory of the body of the apparatus and set storage card (a memory card or the like) correspond to the set card and the body (S1404). At this time, a check is performed as to whether or not contradiction takes place (although a modem card is set, the program correspond to LAN) or an error (for example, a hardware error of the error or the program transferred to the body of the apparatus cannot be executed due to wanting of memory) occurs. If contradiction or an error takes place (S1404), an alarm of this fact is provided to the user through the display portion 105 to urge the user to change the card or the like to overcome the error or the contradiction (S1406). If the card is changed, the operation returns to step S1401. If no change takes place (S1407), then the process following step S1405 is continued.

[0179] If neither contradiction nor error takes place (S1404), or if the card is not changed although a contradiction or an error takes place (S1407), only drive software that can be used is operated (S1405), so that the set card is operated.

[0180] Then, facsimile communication or copying operation is performed in a mode selected by the operation performed by the user (S1408). Since the operation to be performed here is the same as that described above, it is omitted from this description. If no card is set, an operation, for example, communication, is performed that can be performed by only the body of the apparatus. When the card has been set and software corresponding to the card has been supplied, an operation using the set card is performed.

[0182] In the foregoing case where the card has been changed or where the card does not correspond to the drive software, the user is able to make the card and the software correspond to each other by changing the card and the software.

[0183] Although the foregoing description has been made about the structure in which the program and data are read from the memory card, such as the program IC card, an arrangement in which the program and data are stored in the interface card enables the number of the card slots to be reduced to one. In this case, the size of the apparatus can be reduced.

However, Tsukamoto '033 fails to specifically teach wherein the processor executes a plurality of programs in response to powering on of the image processing apparatus.

However, this is well known in the art as evidenced by the description of the related art. The description of the related art discloses wherein the processor executes a plurality of programs in response to powering on of the image processing apparatus (i.e. as disclosed in the description of the related art, upon receipt of the power supply, the control unit controls the entire operation of the printer, which includes controlling the multiple programs associated with the multiple features of the printer; see paragraph [0005] of Applicant's spec).

Therefore, in view of the description of the related art, it would have been obvious to one of ordinary skill at the time the invention was made to have the feature of wherein the processor executes a plurality of programs in response to powering on of the image processing apparatus, incorporated in the device of Tsukamoto '033, in order to control the entire operation of the printer (as stated in the description of the related art paragraph [0004]).

However, the combination of Tsukamoto and the description of the related art '033 fails to specifically teach the processor displays a menu via the operation panel unit to enable a user to select an execution of the additional function related to the image forming apparatus, wherein when the user selects the additional function via the operation panel unit, a plug-in program corresponding to the additional function selected by the user stored in the portable storage unit is executed, the processor displays a selectable menu through the operation panel, and if the menu is selected.

However, this is well known in the art as evidenced by Kanno '609. Kanno '609 discloses the processor displays a menu via the operation panel unit to enable a user to

select an execution of the additional function related to the image forming apparatus (i.e. the device of Kanno is similar to Tsukamoto since both inventions involve executing programs introduced to a copier through an IC card (same field of endeavor). However, in Kanno '609, the system discloses showing a user a list, or menu, of functions that have been stored on the IC card and that can be selected and used in the copier device; see col. 10, ll. 14-36);

wherein when the user selects the additional function via the operation panel unit (i.e. the user is able to select the functions in the list by operating the control panel (114) of the copier device and this selection is accepted as a request to execute a program; see fig. 6, col. 10, ll. 14-36); and

a plug-in program corresponding to the additional function selected by the user stored in the portable storage unit is executed (i.e. the copier receives this selection through the control panel and operates the selected feature in the manner related to the copier device; see fig. 6, col. 10, ll. 14-36),

the processor displays a selectable menu through the operation panel, and if the menu is selected (i.e. Kanno '609 discloses showing a user a list, or menu, of functions that have been stored on the IC card and that can be selected and used in the copier device; see col. 10, ll. 14-36).

Therefore, in view of Kanno '609, it would have been obvious to one of ordinary skill at the time the invention was made to have the features of displays a menu via the operation panel unit to enable a user to select an execution of the additional function related to the image forming apparatus, wherein when the user selects the additional

function via the operation panel unit, a plug-in program corresponding to the additional function selected by the user stored in the portable storage unit is executed, the processor displays a selectable menu through the operation panel, and if the menu is selected, incorporated in the device of Tsukamoto '033, as modified by the description of the related art in Applicant's spec, in order to display a list of functions stored on an IC card (as stated in Kanno '609 col. 10, ll. 17-24).

However, the combination of Tsukamoto '033 in view of the description of the related art and Kanno '609 fails to specifically teach displays a message via operation panel unit a message that the execution file in the portable storage unit cannot be executed.

However, this is well known in the art as evidenced by Okubo '471. Okubo '471 discloses displays a message via operation panel unit a message that the execution file in the portable storage unit cannot be executed (i.e. like the systems of Tsukamoto and Kanno, a computer may transmit information to and from a copier or printing device for processing (same field of endeavor). However, the system of Okubo '471 specifically discloses that a host computer is notified that the image processing program candidate from a data storing medium is not operable on the copier device. This feature notifies the user at the computer of the non-operable program within the copier; see ¶ [0133]-[0135]).

Therefore, in view of Okubo '471, it would have been obvious to one of ordinary skill at the time the invention was made to have the feature of displaying a message via operation panel unit, a message that the execution file in the portable storage unit

cannot be executed, incorporated in the device of Tsukamoto '033, as modified by the features of the description of the related art and Kanno '609, in order to send a notification to a user when the copier determines that the individual processing program to be downloaded is not operable within the device (as stated in Okubo '471 at ¶ [0018]).

Re claim 43: Tsukamoto '033 discloses an image forming apparatus comprising:

- a printing unit to execute printing functions (i.e. the communication apparatus comprises a recording portion that is able to perform printing functions; see fig. 1, paragraphs [0036]-[0038]);

- a processor to control functions executed by the image forming apparatus (i.e. in the system of Tsukamoto, since the CPU (101) controls the apparatus with a program stored in ROM (102), this is considered as the main program being executed in the copier device; see paragraph [0029]),

- a memory (i.e. the RAM or ROM is considered as the memory; see paragraphs [0029] and [0030]);

- an operation panel unit (i.e. the operation portion (104) is considered as the operation panel; see paragraph [0031]);

- a first interface connected with an external apparatus to receive print data (i.e. as seen in figure 1, the printer interface card (116) is used to connect a PC to a printing device to output data from a PC; see *p [0044]-[0050] and [0142]-[0165]); and

a second interface, separate from the first interface, to removably receive a portable storage unit providing an additional function related to the image forming apparatus that was not previously supported by the image forming apparatus (i.e. in the system, the program IC card (1304) stores a program that adapts the copier to use the interface card (1303) that is used to connect a PC to the image forming apparatus. The program IC card that introduces a program to use the interface card for communication between the PC and the copier is considered as an additional function related to the image forming apparatus that was not previously supported. If the function was previously supported or functioning on the copier, the program IC card (1304) would not be needed for communication between the two devices; see *p [0142]-[0165]),

wherein the processor determines whether the portable storage unit is installed in the second interface, and determines whether an execution file is stored in the portable storage unit is executable (i.e. in the system, a card storing data, which can be image data or a program, can be used. The program relating to the CPU (101) that reads the card can determine whether the card contains a program to execute a function or data that is simply exchanged between the memory card and RAM (103). The program IC card and interface card can be considered as a portable storage units since they both store either a function to be realized by a printer or the software to perform the function. Within the system, the software on the cards are corresponding to, or related with, the main program on the copier since these introduced programs work with the main program to perform some function. In addition, the system determines if the card

software can be executed with the programs available on the copier device; see figs. 26-28, 31-42; paragraphs [0030], [0115]-[0134] and [0171]-[0181]),

wherein if it is determined that the portable storage unit is installed in the second interface and the execution file is stored in the portable storage unit (i.e. in the system, a card storing data, which can be image data or a program, can be used. The program relating to the CPU (101) that reads the card can determine whether the card contains a program to execute a function or data that is simply exchanged between the memory card and RAM (103). The program IC card and interface card can be considered as a portable storage units since they both store either a function to be realized by a printer or the software to perform the function. Within the system, the software on the cards are corresponding to, or related with, the main program on the copier since these introduced programs work with the main program to perform some function; see figs. 26-28, 31-42; paragraphs [0030], [0115]-[0134] and [0171]-[0181]),

wherein if the execution file in the portable storage unit is not executable, the processor displays a message via operation panel (i.e. the user is notified on a display to change a card in order to overcome an error or contradiction because the program on the card is not able to be executed; see ¶ [0171]-[0181]);

wherein the function corresponds to one of the programs executed by the processor in response to the powering on of the image forming apparatus (i.e. if the system does not contain a communication card, a user can add such a card to the system. Once the card is added to the apparatus and power is supplied to the body of the apparatus, the system then recognizes the functions of the card and executes this

function based on the user input and powering on of the apparatus; see figs. 21 and 22, ¶ [0084]-[0107]),

wherein the plug-in program does not have an independent interface and can be used by being connected with the corresponding one of the executed programs (i.e. the program on the IC card has to be connected to the main program running the overall printing device in order for the function associated with the IC card to operate; see paragraphs [0079], [0126]-[0129] and [0161]-[0173]) and

provides additional function to the one of the executed programs that was not previously supported by the one of the executed programs (i.e. in the Tsukamoto reference, an additional function card (1602) is used to introduce a function that was previously impossible for the CPU (101) to do without the function card. The additional function card introduces a new function to the system that was not previously performed before the card was brought into interaction with the copier's application program; see paragraphs [0079], [0126]-[0129] and [0161]-[0173]),

wherein if a portable storage unit is connected for the first time, the processor determines whether the portable storage unit is an interface card or a memory card (i.e. the system detects if the card inserted in the slot is a memory, LAN or modem card, which can be considered as interface and memory cards; see ¶ [0171]-[0181]),

wherein if the driver program is not stored in the internal storage unit, the processor displays a message for indicating error, and then, when a memory card in which the device driver is stored in a plug-in form is installed in the second interface (i.e. if the copier body determines that the LAN or modem card does not correspond with

any driver programs in the copier's memory, the system then determines if the memory card also connected in the other card slot contains a driver program to run the LAN or modem card. If a contradiction or the cards occur, the user is alerted on the display about the contradiction or the error. The user can change either the interface card or the program IC card in order to perform an additional function. In the case of the example mentioned in the disclosure, the user can simply replace the old program IC card associated with a LAN with a program IC card associated with a modem. The program on the memory card is stored in a format that is able to be installed on the copier device in order to execute a program, which is considered to be a plug-in form; see ¶ [0171]-[0181] and [0115]-[0131]), and

then the processor drives the interface card using the device driver (i.e. when the copier acquires the correct program IC card that corresponds with the interface card, the copier processor drives the interface card to perform the associated function using the program within the program IC card; see ¶ [0171]-[0181] and [0115]-[0131]).

[0174] If the software, which is being used, cannot be adapted to the set card, this fact is notified to the OS 1710 through the external interface control module 1724 and the module controller 1712. The OS 1710 performs display on the display portion 1051 to urge the user to perform a required process, such as change of the corresponding program IC card or another card. The program IC card stores software shown in FIG. 40.

[0178] An examination is made as to whether or not the program and data in the memory of the body of the apparatus and set storage card (a memory card or the like) correspond to the set card and the body (S1404). At this time, a check is performed as to whether or not contradiction takes place (although a modem card is set, the program correspond to LAN) or an error (for example, a hardware error of the error or the program transferred to the body of the apparatus cannot be executed due to wanting of memory) occurs. If contradiction or an error takes place (S1404), an alarm of this fact is provided to the user through the display portion 105 to urge the user to change the card or the like to overcome the error or the contradiction (S1406). If the card is

changed, the operation returns to step S1401. If no change takes place (S1407), then the process following step S1405 is continued.

[0179] If neither contradiction nor error takes place (S1404), or if the card is not changed although a contradiction or an error takes place (S1407), only drive software that can be used is operated (S1405), so that the set card is operated.

[0180] Then, facsimile communication or copying operation is performed in a mode selected by the operation performed by the user (S1408). Since the operation to be performed here is the same as that described above, it is omitted from this description. If no card is set, an operation, for example, communication, is performed that can be performed by only the body of the apparatus. When the card has been set and software corresponding to the card has been supplied, an operation using the set card is performed.

[0182] In the foregoing case where the card has been changed or where the card does not correspond to the drive software, the user is able to make the card and the software correspond to each other by changing the card and the software.

[0183] Although the foregoing description has been made about the structure in which the program and data are read from the memory card, such as the program IC card, an arrangement in which the program and data are stored in the interface card enables the number of the card slots to be reduced to one. In this case, the size of the apparatus can be reduced.

However, Tsukamoto '033 fails to specifically teach one of the programs executed by the processor in response to the powering on of the image processing apparatus.

However, this is well known in the art as evidenced by the description of the related art. The description of the related art discloses one of the programs executed by the processor in response to the powering on of the image processing apparatus (i.e. as disclosed in the description of the related art, upon receipt of the power supply, the control unit controls the entire operation of the printer, which includes controlling the multiple programs associated with the multiple features of the printer; see paragraph [0005] of Applicant's spec).

Therefore, in view of the description of the related art, it would have been obvious to one of ordinary skill at the time the invention was made to have the feature of one of the programs executed by the processor in response to the powering on of the image processing apparatus, incorporated in the device of Tsukamoto '033, in order to control the entire operation of the printer (as stated in the description of the related art paragraph [0004]).

However, the combination of Tsukamoto and the description of the related art '033 fails to specifically teach the processor displays a menu via the operation panel unit to enable a user to select an execution of the additional function related to the image forming apparatus, wherein the additional function selectable by the user corresponds to one of the programs executed by the processor, wherein when the user selects the additional function via the operation panel unit, a plug-in program corresponding to the additional function selected by the user stored in the portable storage unit is executed, and the processor displays a selectable menu through the operation panel, and if the menu is selected.

However, this is well known in the art as evidenced by Kanno '609. Kanno '609 discloses the processor displays a menu via the operation panel unit to enable a user to select an execution of the additional function related to the image forming apparatus (i.e. the device of Kanno is similar to Tsukamoto since both inventions involve executing programs introduced to a copier through an IC card (same field of endeavor). However, in Kanno '609, the system discloses showing a user a list, or menu, of functions that

have been stored on the IC card and that can be selected and used in the copier device; see col. 10, ll. 14-36);

wherein the additional function selectable by the user corresponds to one of the programs executed by the processor, wherein when the user selects the additional function via the operation panel unit (i.e. the user is able to select the functions in the list by operating the control panel (114) of the copier device and this selection is accepted as a request to execute a program; see fig. 6, col. 10, ll. 14-36); and

a plug-in program corresponding to the additional function selected by the user stored in the portable storage unit is executed (i.e. the copier receives this selection through the control panel and operates the selected feature in the manner related to the copier device; see fig. 6, col. 10, ll. 14-36), and

the processor displays a selectable menu through the operation panel, and if the menu is selected (i.e. Kanno '609 discloses showing a user a list, or menu, of functions that have been stored on the IC card and that can be selected and used in the copier device; see col. 10, ll. 14-36).

Therefore, in view of Kanno '609, it would have been obvious to one of ordinary skill at the time the invention was made to have the features of the processor displays a menu via the operation panel unit to enable a user to select an execution of the additional function related to the image forming apparatus, wherein the additional function selectable by the user corresponds to one of the programs executed by the processor, wherein when the user selects the additional function via the operation panel unit, a plug-in program corresponding to the additional function selected by the user

stored in the portable storage unit is executed, and the processor displays a selectable menu through the operation panel, and if the menu is selected, incorporated in the device of Tsukamoto '033, as modified by the description of the related art in Applicant's spec, in order to display a list of functions stored on an IC card (as stated in Kanno '609 col. 10, ll. 17-24).

However, the combination of Tsukamoto '033 in view of the description of the related art and Kanno '609 fails to specifically teach displays a message via operation panel unit a message that the execution file in the portable storage unit cannot be executed.

However, this is well known in the art as evidenced by Okubo '471. Okubo '471 discloses displays a message via operation panel unit a message that the execution file in the portable storage unit cannot be executed (i.e. like the systems of Tsukamoto and Kanno, a computer may transmit information to and from a copier or printing device for processing (same field of endeavor). However, the system of Okubo '471 specifically discloses that a host computer is notified that the image processing program candidate from a data storing medium is not operable on the copier device. This feature notifies the user at the computer of the non-operable program within the copier; see ¶ [0133]-[0135]).

Therefore, in view of Okubo '471, it would have been obvious to one of ordinary skill at the time the invention was made to have the feature of displaying a message via operation panel unit, a message that the execution file in the portable storage unit cannot be executed, incorporated in the device of Tsukamoto '033, as modified by the

features of the description of the related art and Kanno '609, in order to send a notification to a user when the copier determines that the individual processing program to be downloaded is not operable within the device (as stated in Okubo '471 at ¶ [0018]).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
7. Suzuki '288 (USP 5027288) discloses systems in which a recording apparatus can have various recording functions altered and add various other functions using a portable storage means such as an IC card.
8. Murata '067 (USP 6330067) discloses a digital copying machine that has a card slot that is able to determine if a card is present in the card slot and the type of information present on the card to be download onto the copying machine and processed in the digital device.
9. Fukui (USP 5678135) discloses a system that updates an image forming apparatus with new programs that allow newly added features to function with the printing device. The programs may be provided from a network connected source or a storage medium inside the portable extension part connected to the apparatus to expand the printing device's features.
10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAD DICKERSON whose telephone number is (571)270-1351. The examiner can normally be reached on 9:30-6:00pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHAD DICKERSON/
Examiner
Art Unit 2625

/Twyler L. Haskins/
Supervisory Patent Examiner, Art Unit 2625